

CHEMISTRY
p-Block Elements
(from 13 to 18 Group
Elements)

- Which one of the following element is most metallic?
(1) P (2) As
(3) Sb (4) Bi
- White phosphorous (P_4) has
(1) six P-P single bonds
(2) four lone pair of electrons
(3) P-P-P angle of 60°
(4) all of these
- Which of the following nitrates decomposes without leaving any solid residue?
(1) Lead nitrate
(2) Ammonium nitrate
(3) Silver nitrate
(4) Sodium nitrate
- Phosphine is generally prepared in the laboratory
(1) by heating phosphorous in a current of hydrogen
(2) by heating white phosphorous with aqueous solution of caustic soda
(3) by decomposition of P_2H_4 at $110^\circ C$
(4) by heating red phosphorous with an aqueous solution of caustic soda
- Which of the following acid exists in polymeric form?
(1) HPO_3 (2) $H_4P_2O_7$
(3) H_3PO_4 (4) None
- Of the following, the most acidic is
(1) As_2O_3 (2) P_2O_3
(3) Sb_2O_3 (4) Bi_2O_3
- Which of the following acid possesses oxidising, reducing and complex forming properties?
(1) HNO_3 (2) H_2SO_4
(3) HCl (4) HNO_2
- In the reaction
 $HNO_3 + P_4O_{10} \rightarrow 4HPO_3 + x$, the product x is
(1) N_2O_3 (2) N_2O_5
(3) NO_2 (4) H_2O
- Hypophosphorus acid is
(1) a tribasic acid
(2) a dibasic acid
(3) a monobasic acid
(4) not acidic at all
- The strongest acid amongst the following is
(1) $HClO_4$ (2) $HClO_3$
(3) $HClO_2$ (4) $HClO$